

42390P0744C2

PATENT

CLAIM AMENDMENTS:

- 1-20. (Canceled)
21. (Currently amended) An apparatus comprising:
a machine readable storage medium having stored thereon instructions capable of being executed by a data processing platform, said instructions being adapted to:
receive a literal source code macroinstruction;
encode ~~said the~~ literal source code macroinstruction into a corresponding
subroutine address without an intermediate translation;
generate an execution stream; and
store the subroutine address.
22. (Currently amended) The apparatus of claim 21, wherein ~~said the~~ instructions are further adapted to execute a subroutine identified by ~~said the~~ subroutine address.
23. (Currently amended) The apparatus of claim 22, wherein ~~said the~~ instructions are further adapted to push ~~an~~ at least one associated argument onto a stack, ~~said the at least one associated~~ argument adapted to be used as an input to ~~said the~~ subroutine identified by said the subroutine address.
24. (Currently amended) The apparatus of claim 22, wherein ~~said the~~ instructions are further adapted to pop ~~an~~ the at least one associated argument from a stack, ~~said the at least one associated~~ argument adapted to be used as an input to ~~said the~~ subroutine identified by said the subroutine address.
25. (Currently amended) The apparatus of claim 22, wherein ~~said the~~ instructions are further adapted to push a result of the execution of ~~said the~~ subroutine onto a stack.

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26. (Currently amended) The apparatus of claim 22, wherein ~~said~~ the instructions are further adapted to point to the first item associated with ~~said~~ the subroutine stored in ~~said~~ the execution stream.
27. (Currently amended) The apparatus of claim 21, wherein ~~said~~ the instructions are further adapted to recursively execute a subroutine.
28. (Currently amended) A method comprising:
receiving a source code command input stream comprising a
macroinstruction;
encoding said macroinstruction into a corresponding subroutine address
without an intermediate translation;
generating an execution stream for storing ~~said~~ the subroutine address and
associated arguments; and
executing a subroutine identified by ~~said~~ the subroutine address.
29. (Currently amended) The method of claim 28, and further comprising
pushing an argument onto a stack, ~~said~~ the argument representing an input
to said subroutine identified by ~~said~~ the subroutine address.
30. (Currently amended) The method of claim 28, and further comprising
popping an argument from a stack, ~~said~~ the argument representing an input
to said subroutine identified by said subroutine address.
31. (Currently amended) The method of claim 28, and further comprising
pushing a result of the execution of ~~said~~ the subroutine onto a stack.
32. (Currently amended) The method of claim 28, and further comprising
pointing to the first item associated with ~~said~~ the subroutine stored in ~~said~~ the
the execution stream.

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33. (Currently amended) An apparatus comprising:
a machine readable storage medium having stored thereon instructions
capable of being executed by a data processing platform, said instructions
being adapted to:
encode macroinstructions to provide a corresponding executable address
without an intermediate translation.
34. (Currently amended) The apparatus of claim 33, wherein ~~said~~ the
instructions are further adapted to receive the macroinstructions.
35. (Currently amended) The apparatus of claim 33, wherein ~~said~~ the
instructions are further adapted to generate an execution stream.
36. (Currently amended) A method comprising:
translating a source code instruction to generate a subroutine address
without an intermediate translation.
37. (Currently amended) The method of claim 36, wherein translating the
source code instruction includes directly translating the source code.
38. (Canceled) Please cancel Claim 38 without prejudice.
39. (Currently amended) The method of claim 36, further comprising
receiving the a-source code instruction.
40. (Currently amended) The method of claim 36, wherein translating the
source code instruction includes parsing the source code instruction.
41. (Currently amended) The method of claim 36, further comprising
generating an execution stream for storing ~~said~~ the subroutine address.